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A.D. 1875, 15th July. N° 2545.

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SPECIFICATION

OF

MATTHEW WILSON.

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STENCH TRAP.  
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LONDON:

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1875





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A.D. 1875, 15th JULY. N° 2545.

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**Stench Trap.**

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**LETTERS PATENT** to Matthew Wilson, of Loughboro' Road, Brixton, in the County of Surrey, Gentleman, for the Invention of "**AN IMPROVED STENCH TRAP.**"

Sealed the 11th January 1876, and dated the 15th July 1875.

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**PROVISIONAL SPECIFICATION** left by the said Matthew Wilson at the Office of the Commissioners of Patents, with his Petition, on the 15th July 1875.

I, MATTHEW WILSON, of Loughboro' Road, Brixton, in the County of Surrey, Gentleman, do hereby declare the nature of the said Invention for "**AN IMPROVED STENCH TRAP,**" to be as follows:—

My said Invention relates to an improved stench trap, which I call a "double seal stench trap," and which is constructed as follows:—The outer case is formed of cast iron, lead, or other suitable material. The said case has a perforated cover or grating, which is removable for the purpose of cleaning the trap. The bottom of the said case has



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*Wilson's Improved Stench Trap.*

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provision for the usual connection with a drain pipe. Inside the cover near the top of the case I form a ledge or shoulder for supporting a tray of cast iron or other metal. This tray has a perforated bottom, and above it a shoulder, which serves as a seat for a ball formed of hollow metal or other material having sufficient buoyancy to cause the ball to float 5 when the tray is filled with liquid. Upon the under side of the said tray I cast or otherwise form or fix a bell or inverted cup, which projects down into the bottom of the case or box, which is made of the usual shape to contain liquid, to form the water seal of the trap. The tray with the bell may be readily lifted from the shoulder whereon it is 10 supported, and removed from the trap to allow the body of the same to be cleansed when necessary.

It will be seen that the peculiar feature of this Invention is the combination of the water seal with the ball valve seal, that is to say, the said trap, as its name applies, has a double seal, so that if any foul 15 gas ascending the drain pipe should pass the lower or water seal of the trap it will be stopped by the said ball. The latter is preferably secured by a chain to the tray, so that it cannot be accidentally removed from the trap and lost. The said ball when down on its seat cuts off the communication between the interior of the tray and the body of the trap, 20 and the ball will remain in this position so long as no liquid flows through the top grating or cover into the tray; but when the latter is filled or partially filled with liquid the ball rises, and allows the said liquid to pass through the perforations or holes in the bottom of the tray, and thence under the bell to the drain pipe. 25

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SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Matthew Wilson in the Great Seal Patent Office on the 15th January 1876.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, MATTHEW WILSON, of Loughboro' Road, Brixton, in the County of Surrey, 30 Gentleman, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Fifteenth day of July, in the year of



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*Wilson's Improved Stench Trap.*

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our Lord One thousand eight hundred and seventy-five, in the thirty-ninth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Matthew Wilson, Her special licence that I, the said Matthew Wilson, my executors, administrators, and  
5 assigns, or such others as I, the said Matthew Wilson, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland,  
10 the Channel Islands, and Isle of Man, an Invention for “AN IMPROVED STENCH TRAP,” upon the condition (amongst others) that I, the said Matthew Wilson, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention,  
15 and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said Matthew Wilson, do hereby declare the nature of my said Invention, and in what manner the same is to be  
20 performed, to be particularly described and ascertained in and by the following statement, reference being had to the accompanying Drawing forming a part of this Specification :—

My said Invention relates to an improved stench trap, which I call a “double seal stench trap,” and which will be found very efficient for  
25 preventing the entrance of noxious gases from sewers or drains into dwelling houses and other places, and which is simple and inexpensive, and not liable to derangement or the displacement or loss of any of the parts through the carelessness of servants or otherwise.

The said Invention is carried into practice as shewn in the accompanying Drawing, which is a vertical section of my improved stench  
30 trap.

The outer case *a* is formed of cast iron, lead, or other suitable material. The said case has a perforated cover or grating *b*, which is readily removable for the purpose of cleaning the trap. The bottom of  
35 the said case has a provision at *c* for the usual connection with a drain pipe. Inside the cover *b*, near the top of the case *a*, I form a ledge or



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*Wilson's Improved Stench Trap.*

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shoulder  $a^1$  for supporting a tray  $d$  of cast iron or other suitable metal shaped as shewn, or approximately so shaped. This tray  $d$  has its lower portion  $d^1$  perforated at the bottom, as shewn at  $d^2$ , and it is either perforated with round holes or has slots or long apertures at  $d^3$ . The part immediately above this perforated or slotted portion of the tray 5 serves as a seat for a ball  $e$  formed of hollow metal or other material, which has sufficient buoyancy to cause the said ball to float when the tray is filled with liquid. Upon the under side of the said tray I cast or otherwise form or fix a bell or inverted cup  $f$ , which projects down into the bottom or lower portion of the case or box  $a$ . The said case or box 10 is made of the usual shape to contain liquid to form the water seal of the trap. The tray with the bell may be readily lifted from the shoulder whereon it is supported, and removed from the trap to allow the body of the same to be cleaned when necessary.

It will be seen that the peculiar feature of this Invention is the 15 combination of a water seal with a ball valve seal, that is to say, the said trap, as its name implies, has a double seal, so that if any foul gas ascending the drain pipe should pass the lower or water seal of the trap it will be stopped by the said ball. The latter is preferably secured by a chain to the tray, so that it cannot be accidentally removed from the 20 trap and lost. The said ball when down on its seat cuts off the communication between the interior of the tray  $d$  and the body of the trap  $a$ , and the ball  $e$  will remain in this position so long as no liquid flows through the top grating or cover  $b$  into the tray  $d$ ; but when the latter is filled or partially filled with liquid the ball  $e$  rises, and allows 25 the said liquid to pass through the perforations or holes in the lower portion  $d^1$  of the tray, and thence under the bell  $f$  and through the passage  $c$  to the drain pipe.

Having thus fully described the said Invention, and shown how the same may be conveniently and advantageously carried into practice, I 30 wish it understood that I claim,—

First. In a stench trap the combination of a ball valve and bell or inverted cup, acting in such a manner that the said trap is doubly sealed or closed against the passage of foul or noxious gases.

Second. A stench trap with the outer case or box and perforated 35 cover, the tray with its perforated or slotted lower portion, and the ball

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*Wilson's Improved Stench Trap.*

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valve resting in the same, and with the bell or inverted cup over the drain pipe aperture, constructed and combined as herein set forth, and for the purposes specified.

In witness whereof, I, the said Matthew Wilson, have hereunto set  
5 my hand and seal, this Fifteenth day of January, in the year of  
our Lord One thousand eight hundred and seventy-six.

MATTHEW WILSON. (L.S.)

Witness,

ROWLAND GEO. BROWN,

8, Southampton Buildings,  
10 London.

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LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1876.



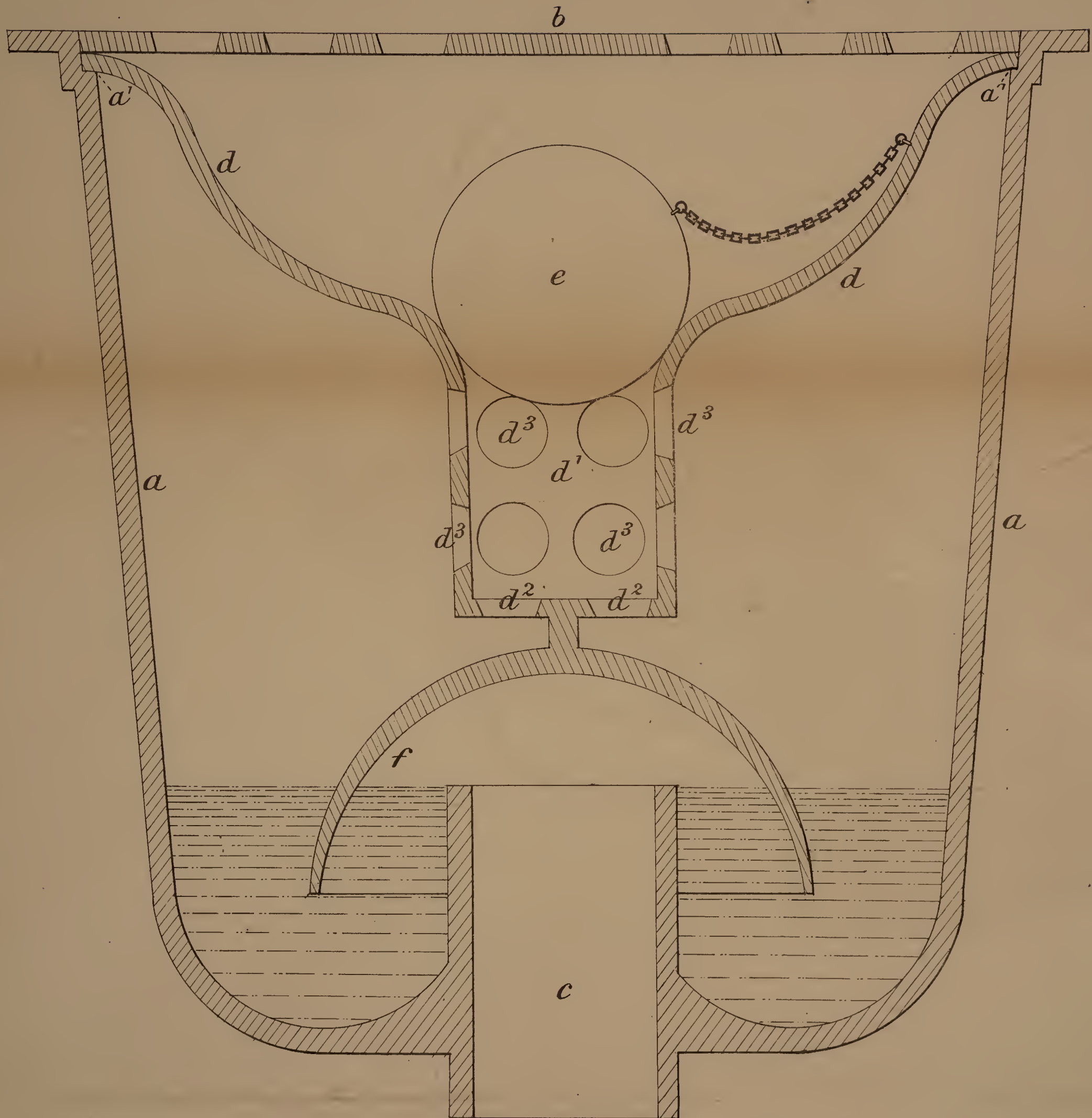








A.D.1875. JULY 15. N<sup>o</sup>. 2545.  
WILSON'S SPECIFICATION.



*The filed drawing is partly colored.*

Drawn on Stone by Malby & Sons.

